

SERIES RNH

RIBBON WIRE

RIBBON BONDING WEDGES FOR GOLD AND ALUMINUM WIRE

SAMPLE PART NUMBER: M-RNH-D-1/16-1"-45-CG-.5x5-2-M-*

SYMBOL EXPLANATION: 1 2 3 4 5 6 7 8 9 10 11

1. **MATERIAL:**
 - M = Ceramic
 - C = Tungsten Carbide
 - T = Titanium
 - All other: See Material Selection Guide
2. **SERIES:** RNH
3. **FRONT/BACK RADIUS:** See Radius Option Chart
*For special Radius sizes insert an X Please specify FR/BR
4. **SHANK DIA.:** Please Specify Diameter
5. **TOOL LENGTH:** Please Specify Length
6. **HOLE ANGLE:** for RNH (45°,55°,60°)
- (11) See Tool Option
- (10) **FOOT FINISH:**
 - M = Matte finish (FR, BR, & Bond Flat)
 - P = Polish finish (FR, BR, & Bond Flat)
 - MP= Polish finish (FR, BR), and Matte finish (Bond Flat)
- (9) **Bond Length:** See Standard Chart
Example: BL of .0020 = 2
Note: We do not recommend bond lengths any larger than .005".
- (8) **RIBBON SIZE:** See Standard Chart
Example: .0005 x .005 = .5 x 5
Thickness x Width
- (7) **FOOT TYPE:**
 - F = Flat
 - CG = Cross Groove
 - DT = Diamond Tip
 - (Please specify Ribbon size)

For special sizes or dimensions insert an (X) in the appropriate position of the part number then specify what (X) equals. Example: M-RNH-X-1/16-1"-45-CG-.5x5-2-M-A7 (X) FR=.0012, BR=.0007

RADIUS OPTION CHART	OPTION LETTER		A	B	C	D	E	F	G	H	I	J	K	L	M	N
	FRONT RADIUS	in.	.0005	.0005	.0010	.0010	.0010	.0015	.0015	.0015	.0015	.0020	.0020	.0020	.0020	.0020
		μ	13	13	25	25	25	38	38	38	38	51	51	51	51	51
BACK RADIUS	in.	0	.0005	0	.0005	.0010	0	.0005	.0010	.0015	0	.0005	.0010	.0015	.0020	
	μ	0	13	0	13	25	0	13	25	38	0	13	25	38	51	

STANDARD CHART		RNH		FOR RIBBON THICKNESS: .00025" THROUGH .0020"						WIDTHS: .002" THROUGH .030"	
RIBBON WIDTH	RIBBON THICKNESS	BL		T(45°)		T(55° 60°)		W			
		in.	μ	in.	μ	in.	μ	in.	μ		
Tolerance		±.0002		±.0005 ±13		±.0005 ±13		±.0002 ±5			
.0020	51	.00025 through .00125	6.4	±.0010	±.0025	±.0090	±.0229	±.0080	±.0203		
				±.0015	±.0038	±.0100	±.0254	±.0080	±.0203		
				±.0020	±.0051	±.0110	±.0279	±.0090	±.0229		
				±.0025	±.0064	±.0115	±.0292	±.0100	±.0254		
.0030	76	.00025 through .00125	6.4	±.0010	±.0025	±.0090	±.0229	±.0080	±.0203		
				±.0015	±.0038	±.0100	±.0254	±.0080	±.0203		
				±.0020	±.0051	±.0110	±.0279	±.0090	±.0229		
				±.0025	±.0064	±.0115	±.0292	±.0100	±.0254		
.0040	102	.00025 through .00125	6.4	±.0020	±.0051	±.0110	±.0279	±.0090	±.0229		
				±.0025	±.0064	±.0115	±.0292	±.0100	±.0254		
				±.0030	±.0076	±.0115	±.0292	±.0100	±.0254		
				±.0035	±.0089	±.0120	±.0305	±.0100	±.0254		
.0050	127	.0005 through .0020	13	±.0025	±.0064	±.0115	±.0292	±.0090	±.0229		
				±.0030	±.0076	±.0115	±.0292	±.0100	±.0254		
				±.0035	±.0089	±.0120	±.0305	±.0100	±.0254		
				±.0040	±.0102	±.0125	±.0318	±.0110	±.0279		
.0070	178	.0005 through .0020	13	±.0025	±.0064	±.0120	±.0305	±.0100	±.0254		
				±.0030	±.0076	±.0120	±.0305	±.0100	±.0254		
				±.0035	±.0089	±.0125	±.0318	±.0110	±.0279		
				±.0040	±.0102	±.0125	±.0318	±.0110	±.0279		
.0100	254	.0005 through .0020	13	±.0025	±.0064	±.0120	±.0305	±.0100	±.0254		
				±.0030	±.0076	±.0120	±.0305	±.0100	±.0254		
				±.0035	±.0089	±.0125	±.0318	±.0110	±.0279		
				±.0040	±.0102	±.0125	±.0318	±.0110	±.0279		
.0120	305	.0005 through .0020	13	±.0025	±.0064	±.0120	±.0305	±.0100	±.0254		
				±.0030	±.0076	±.0120	±.0305	±.0100	±.0254		
				±.0035	±.0089	±.0125	±.0318	±.0110	±.0279		
				±.0040	±.0102	±.0125	±.0318	±.0110	±.0279		
.0150	381	.0005 through .0020	13	±.0025	±.0064	±.0120	±.0305	±.0100	±.0254		
				±.0030	±.0076	±.0120	±.0305	±.0100	±.0254		
				±.0035	±.0089	±.0125	±.0318	±.0110	±.0279		
				±.0040	±.0102	±.0125	±.0318	±.0110	±.0279		
.0200	508	.0005 through .0020	13	±.0025	±.0064	±.0120	±.0305	±.0100	±.0254		
				±.0030	±.0076	±.0120	±.0305	±.0100	±.0254		
				±.0035	±.0089	±.0125	±.0318	±.0110	±.0279		
				±.0040	±.0102	±.0125	±.0318	±.0110	±.0279		

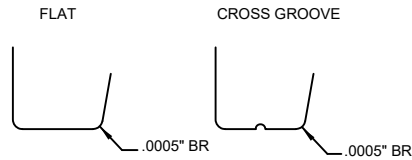
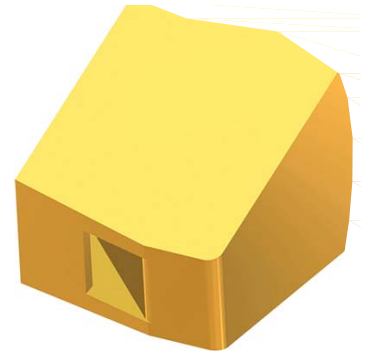
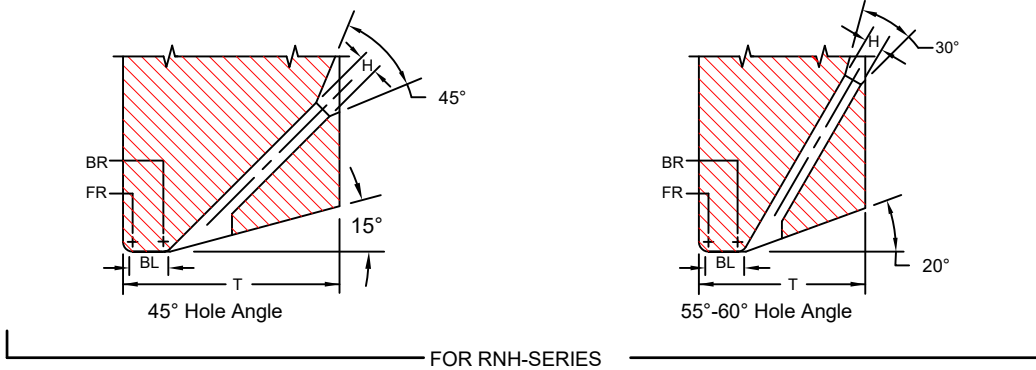
*Other sizes available upon request *All dimensions and tolerances are for reference only

"T" To be determined according to the size of FR and BR and Hole Bore Length

SERIES RNH

Double Flat, Vertical Feed for Palomar (Hughes)
Hesse Mechatronics

FOR AUTOMATIC BONDERS

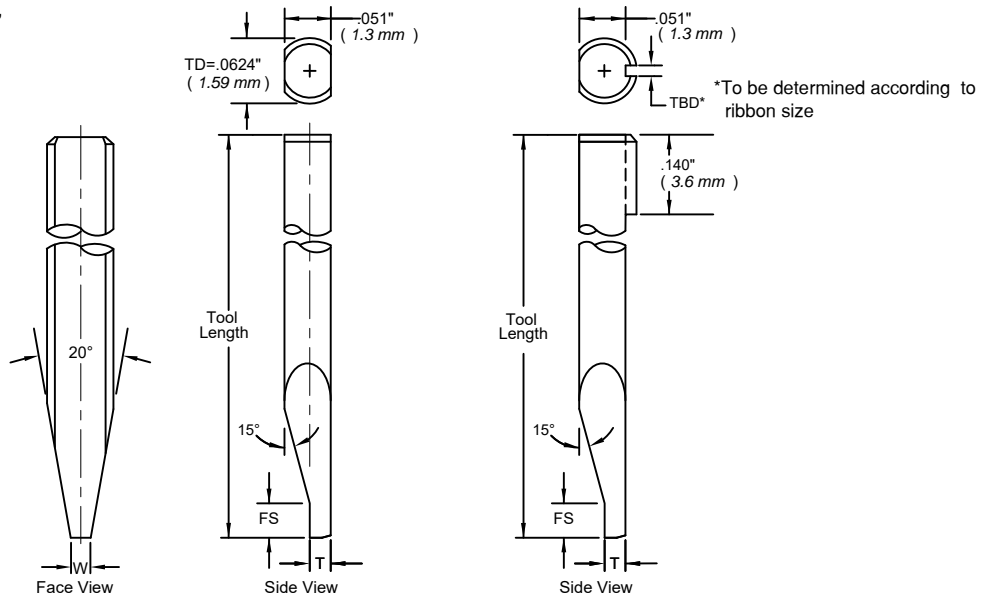


We recommend a .0005" back radius and a cross groove or a flat bond foot when ordering tools for gold wire thermosonic bonding. For more gold wire application information see **Tech Tip**

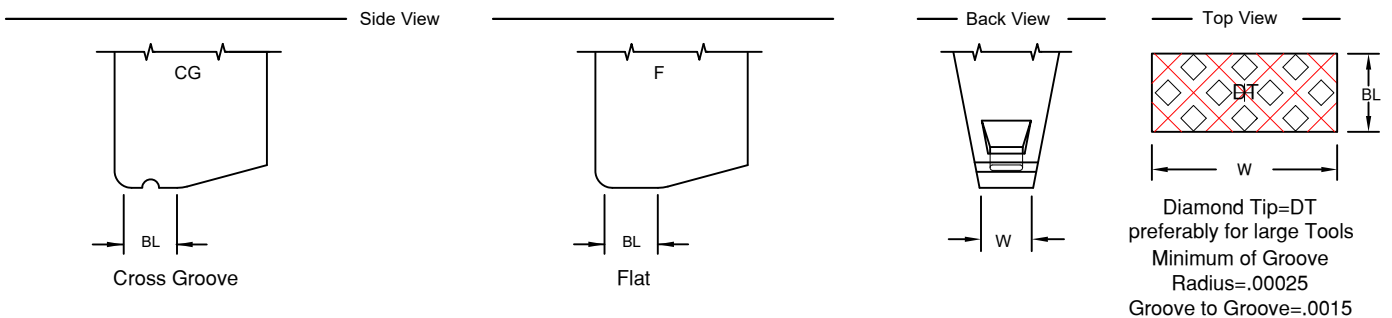
RNH-SERIES RIBBON WIRE

Ribbon Width: .0020" through .0200"
Ribbon Thickness: .00025" through .0020"

* S1 Option



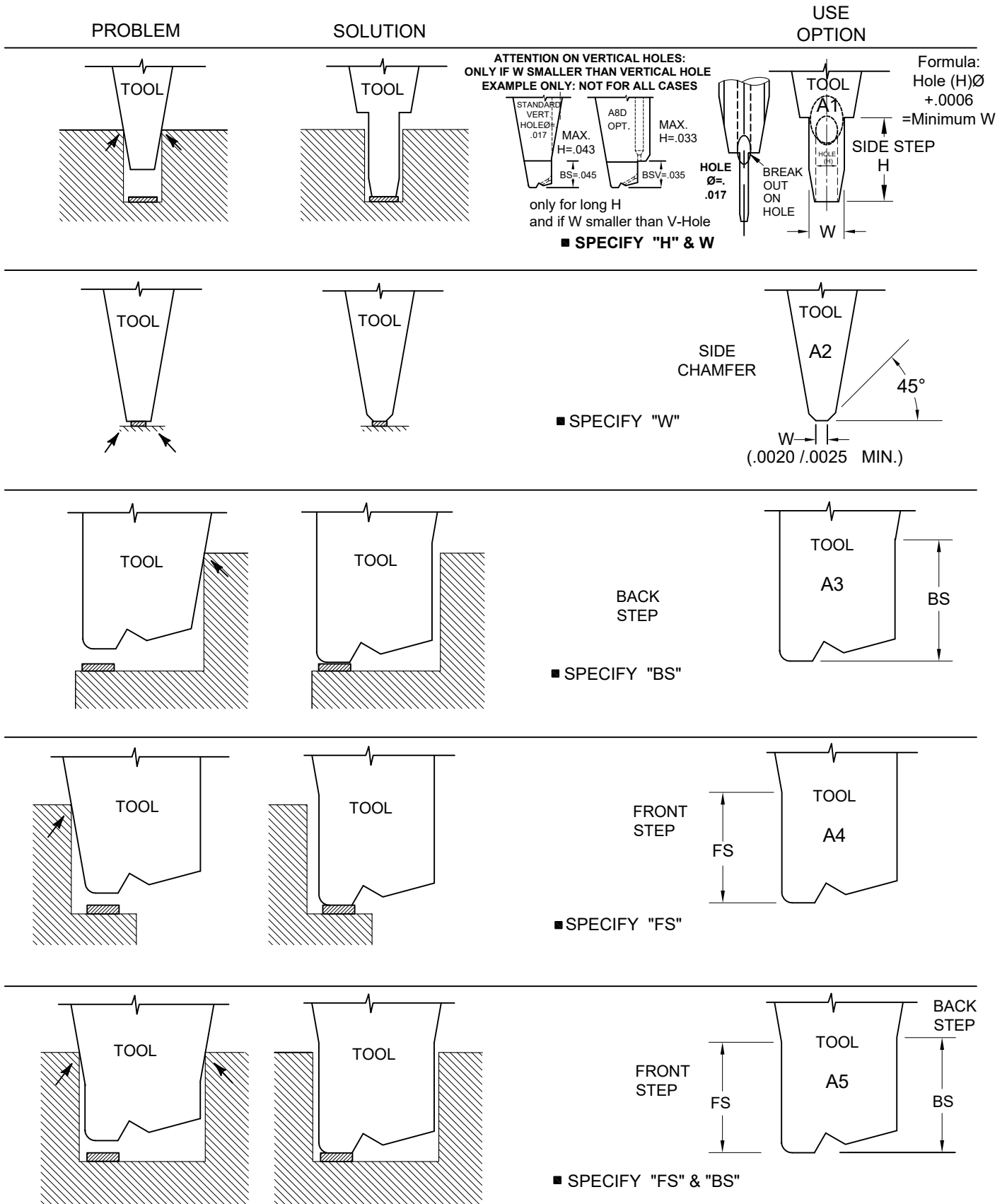
Standard: $\text{Ø } 1/16$, Hole Angle: 45°, 55°, 60°, FS"=.015" (.38 mm)



OPTIONS



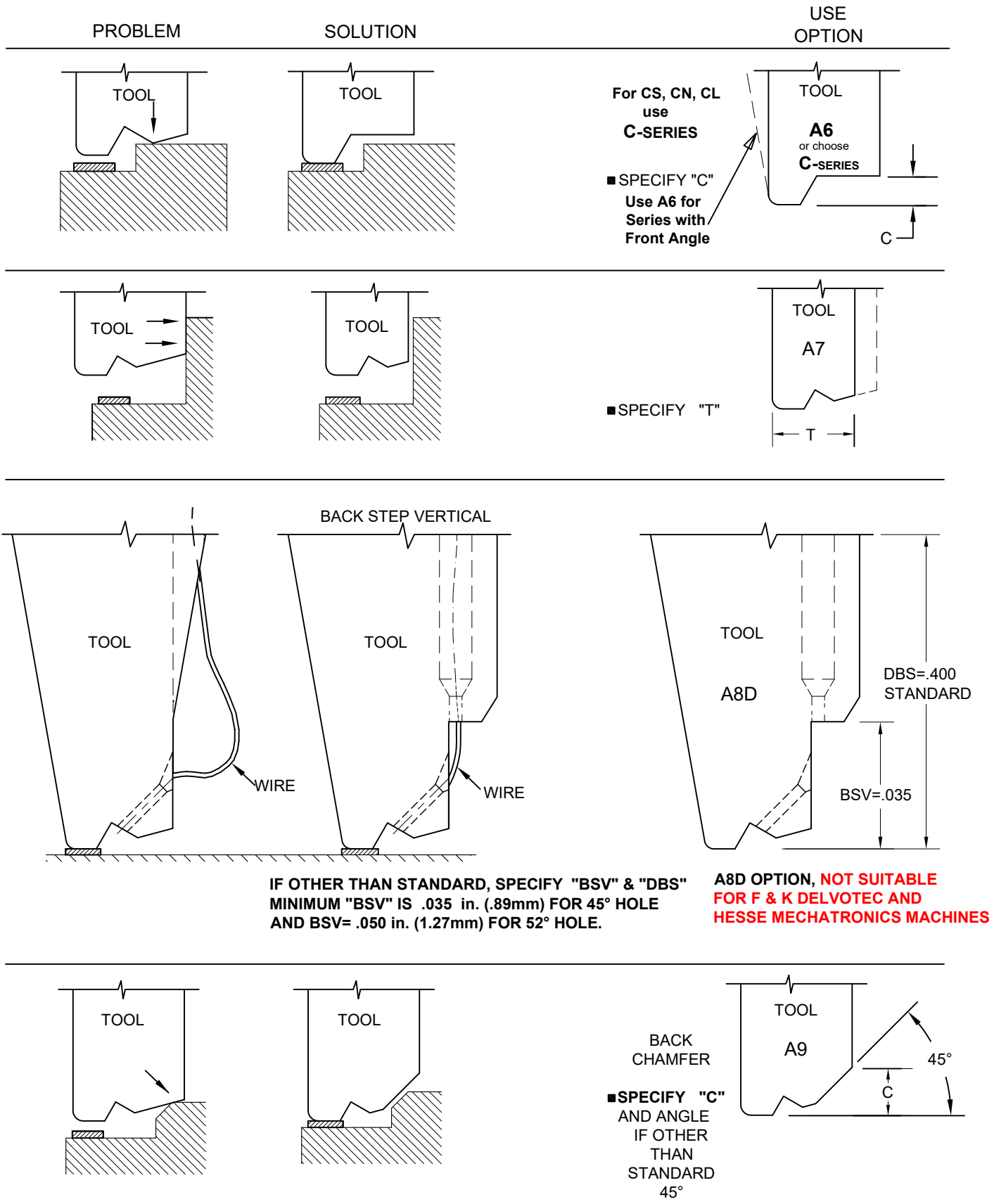
Below are shown various problem situations that can occur during bonding operations and their solutions. When choosing an option, please note the corresponding option number (A1, A2, etc.) when completing the part number from the Ordering Information sections. **These option numbers should appear as the last item in the part number.**



OPTIONS



Below are shown various problem situations that can occur during bonding operations and their solutions. When choosing an option, please note the corresponding option number (A1, A2, etc.) when completing the part number from the Ordering Information sections. **These option numbers should appear as the last item in the part number.**



OPTIONS

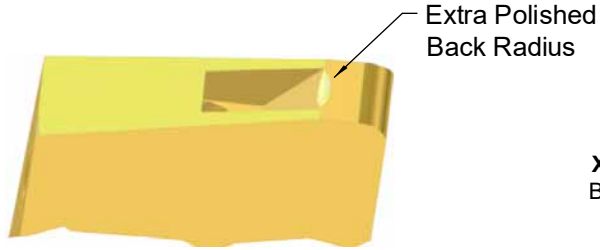


Below are shown various problem situations that can occur during bonding operations and their solutions. When choosing an option, please note the corresponding option number (A1, A2, etc.) when completing the part number from the Ordering Information sections.

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USE
OPTION

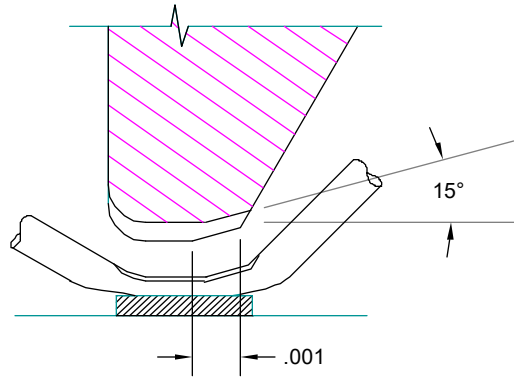
Heel Cracks



XPBR = Extra Polished Back Radius

Extra Polished Back Radius
(Elliptical Back Radius)

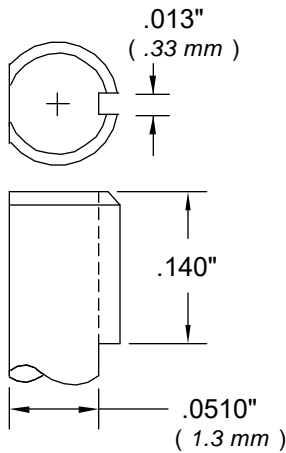
Heel Cracks



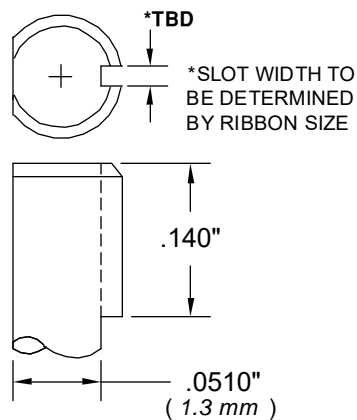
CBR = Chamfered Back Radius

CHAMFERED BACK RADIUS

FOR STANDARD WIRE



FOR RIBBON WIRE



S1 OPTION